Exercise 1 Melinda grows a unique type of mango known for its sweetness and smoothness. Because of this, the price of a mango increases with the distance from Melinda's farm. The function M gives the price of a mango in dollars given the distance x in miles from Melinda's farm:

$$M(x) = \frac{1}{100}x^2 + 4$$

- (a) Compute $AV_{[1,10]}$. $AV_{[1,10]} = \$ \fbox{1.11} \ per \ mile \ from \ Melinda's \ farm.$